

67760-76

05/07/2009

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

AND

OFFICE OF  
PREVENTION, PESTICIDES  
TOXIC SUBSTANCES

MAY -7 2009

Ms. Carrie M. Tackema  
Cheminova, Inc  
One Park Drive, Suite 150  
P.O. Box 110566  
Research Triangle Park, NC 27709

Dear Ms. Tackema:

Subject: Accurate Extra Herbicide (Revise Master Label to Agree with Another Similar Product)  
EPA Registration No. 67760-76  
Application Dated February 25, 2009

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable, provided you make the following changes before you release the product for shipment.

1. On page 2, revise the first paragraph under Pesticide Handling to read "Accurate Extra **must** be used only in accordance with **instructions** on this label or in supplemental Cheminova publications.
2. On page 2, revise the second paragraph under Pesticide Handling to read "Cheminova will not be responsible for losses or damages resulting from the use of this product in any manner not **specified** by Cheminova.
3. On page 2, revise the first sentence of the last paragraph by deleting the word "recommended". The sentence may be modified as necessary.
4. There are several areas of the label where sentences similar to "Read and follows all manufacturers' label recommendations for the companion herbicide. If those recommendations conflict with this label, do not tank mix..." appear. Revise these sentences by replacing the word "recommendations" with the word "instructions".
5. On page 6, the second footnote under Weeds Partially Controlled, revise the second sentence to read "For better results, use the highest **specified** rate of Accurate Extra..."
6. There are several areas of the label where the phrase "local recommendations" appear. Revise these phrases to read "local **guidance**".

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Page 2

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7. On page 7, under With "Starane", "Starane + Salvo", "Starane + Sword" revise the phrase "rotational cropping recommendations" to read "rotational cropping **intervals**". Also replace the word "recommendations" in the last sentence with the word "restrictions".

8. On pages 17 and 18, there are several places where the sentence "To rotate to a major field crop at an interval shorter than recommended, a field bioassay must be successfully completed to that crop" appear. Revise these sentences by replacing the word "recommended" with the word "specified".

9. On page 19, under After Spraying Accurate Extra and Before Spraying Crops Other Than Wheat, Barley, and Triticale, revise the first sentence in bullet #6 to read "If only ammonia is used as a cleaner, the rinsate solution may be applied back to the crop(s) **listed** on this label."

Submit one (1) copy of your final printed label incorporating the above changes before you release the product for shipment. Amended labeling supersedes all previously approved ones.. A stamped copy of labeling is enclosed for your records.

Sincerely,

*James A. Tompkins*  
James A. Tompkins  
Product Manager 25  
Herbicide Branch  
Registration Division (7505P)

# ACCURATE® EXTRA

Herbicide

A dry flowable granule that is used for selective postemergence weed control in wheat (including durum), barley and fallow.

## ACTIVE INGREDIENTS:

By Weight

### Thifensulfuron Methyl

Methyl 3-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]-sulfonyl]-2-thiophenecarboxylate.....	37.5%
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### Tribenuron Methyl

Methyl 2-[[[N-(4-methoxy-6-methyl-1,3,5-triazin-2-yl)methylamino]carbonyl]-amino]-sulfonyl]benzoate.....	18.75%
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### Metsulfuron Methyl

Methyl 2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]benzoate.....	15.00%
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## OTHER INGREDIENTS

28.75%

## TOTAL

100.0%

# KEEP OUT OF REACH OF CHILDREN CAUTION

IN CASE OF A MEDICAL EMERGENCY INVOLVING THIS PRODUCT, CALL TOLL FREE, DAY OR NIGHT 1-866-303-6950.

Read the entire label before using this product.

Use only according to label instructions.

Read the WARRANTY DISCLAIMER, INHERENT RISKS OF USE, and LIMITATION OF REMEDIES before buying or using.

If terms are not acceptable, return product unopened without delay.

SEE BOOKLET FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND USE DIRECTIONS

EPA Reg. No. 67760-76

**ACCEPTED  
with COMMENTS  
In EPA Letter Dated:**

EPA Est. No.

## NET CONTENTS:

MAY -7 2009

Manufactured for:  
Cheminova, Inc.  
One Park Drive, Suite 150  
P.O. Box 110566  
Research Triangle Park, NC 27709  
www.cheminova.us.com

**Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No.  
67760-76**

ACCURATE® is a registered trademark of Cheminova A/S

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear protective eyewear. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

**FIRST AID**

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-866-303-6950 for emergency medical treatment information.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some of the materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category chart.

**Applicators and other handlers must wear:** long sleeved shirt and long pants, shoes plus socks, and chemical resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride.

Follow manufacturer's instructions for cleaning / maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS:**

**Users should:** Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet

**ENVIRONMENTAL HAZARDS**

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

**IMPORTANT INFORMATION**

**PESTICIDE HANDLING**

- Calibrate sprayers only with clean water away from the well site.
- Make scheduled checks of spray equipment.
- Ensure that all operation employees accurately measure pesticides.
- Mix only enough product for the job at hand.
- Avoid overfilling of spray tank.
- Do not discharge excess material on the soil at a single spot in the field or mixing/loading station.
- Avoid storage of pesticides near well sites.

ACCURATE EXTRA should be used only in accordance with recommendations on this label or in supplemental Cheminova publications.

Cheminova will not be responsible for losses or damages resulting from the use of this product in any manner not specifically recommended by Cheminova.

ACCURATE EXTRA is recommended for use on wheat, barley, triticale and fallow in most states. Check with your state extension or Department of Agriculture before use, to be certain that ACCURATE EXTRA is registered in your state. ACCURATE EXTRA is not registered for use in Alamosa, Conejos, Costilla, Rio

Grande, and Sasquache counties of Colorado unless use is directed otherwise by supplemental labeling.

### GENERAL INFORMATION

ACCURATE EXTRA Herbicide is a dry flowable granule that is used for selective postemergence weed control in wheat (including durum), barley, triticale and fallow.

The best control is obtained when ACCURATE EXTRA is applied to young, actively growing weeds. The degree and duration of control may depend on the following factors:

- weed spectrum and infestation intensity
- weed size at application
- environmental condition at and following treatment.

ACCURATE EXTRA is non-corrosive, non-flammable, non-volatile, and does not freeze. ACCURATE EXTRA should be mixed with water and applied as a uniform broadcast spray (see Tank Mixtures and Mixing Instructions sections for use with Liquid Nitrogen Fertilizer Solutions).

### Environmental Conditions and Biological Activity

ACCURATE EXTRA is absorbed through the roots and foliage of plants, rapidly inhibiting the growth of susceptible weeds. One to three weeks after postemergence application to weeds (2 to 5 weeks for wild garlic), leaves of susceptible plants appear chlorotic, and the growing point subsequently dies. In warm, moist conditions, the expression of herbicide symptoms is accelerated; in cold, dry conditions, expression of herbicide symptoms is delayed.

ACCURATE EXTRA will provide up to 4 to 6 weeks of residual weed control. Susceptible weeds may germinate and emerge a few days after postemergence applications, but growth then ceases and leaves become chlorotic 3-5 days after emergence. Death of leaf tissue and growing point will follow in some species, while others will remain green but stunted and noncompetitive.

ACCURATE EXTRA provides the best control of weeds in vigorously growing crops that shade competitive weeds. Weed control in areas of thin crop stand or seeding skips may not provide satisfactory control. However, a crop canopy that is too dense at application can intercept spray and reduce weed control.

The herbicidal action of ACCURATE EXTRA may be less effective on weeds stressed from adverse environmental conditions (such as extreme temperatures or moisture), abnormal soil conditions, or cultural practices. In addition, weeds hardened-off by drought stress are less susceptible to ACCURATE EXTRA.

### PRODUCT MEASUREMENT

ACCURATE EXTRA is measured using the ACCURATE EXTRA volumetric measuring cylinder. The degree of accuracy of this cylinder varies by  $\pm 7.5\%$ . For more precise measurement, use scales calibrated in ounces.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### Agricultural Use Requirements

Use this product only in accordance with its labeling and the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by

the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is: coveralls, chemical-resistant gloves made of any waterproof material.

### STORAGE AND DISPOSAL

**PESTICIDE STORAGE:** Store the product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage.

#### **PRODUCT DISPOSAL:**

##### **Nonrefillable containers equal to or less than 5 gallons:**

Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

##### **Nonrefillable containers greater than 5 gallons:**

Do not reuse or refill this container. Offer for recycling if available. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Fill the container  $\frac{1}{4}$  full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank and store rinsate for later use or disposal. Repeat this procedure two more times.

### FALLOW

#### **USE RATE**

Apply 0.2 to 0.4 ounces per acre of ACCURATE EXTRA to fallow fields.

ACCURATE EXTRA should be applied in combination with other suitable registered fallow herbicides (See TANK MIXTURES for additional information).

#### **APPLICATION TIMING**

Apply in the spring or fall when the majority of weeds have emerged and are actively growing.

#### **TANK MIXTURES IN FALLOW**

ACCURATE EXTRA may be used as a fallow treatment, and should be tank mixed with other herbicides that are registered for use in fallow. Read and follow all manufacturers' label recommendations for the companion herbicide. If those recommendations conflict with this label, do not tank mix the herbicide with ACCURATE EXTRA.

### WHEAT, BARLEY AND TRITICALE

#### **USE RATE**

Apply ACCURATE EXTRA at the rate of 0.2 to 0.4 ounces per acre to wheat, barley, triticale or fallow.

Use 0.4 ounce per acre of ACCURATE EXTRA for heavy infestation of the weeds listed under WEEDS PARTIALLY CONTROLLED when application timing and environmental conditions are marginal (refer to Biological Activity and Environmental Conditions section of this label for best performance).

Use 0.2 to 0.3 ounces per acre of ACCURATE EXTRA for light infestation of the weeds listed under WEEDS CONTROLLED. Conditions at application should be optimum for effective treatment of these weeds.

Note: See Tank Mix Section for additional information on required combinations when used at less than 0.4

ounces per acre.

### APPLICATION TIMING

#### **Wheat (except Durum and Wampum varieties of Spring Wheat), Barley, and Triticale**

Do not harvest sooner than 45 days after the last application of ACCURATE EXTRA.

Make applications after the crop is in the 2-leaf stage, but before the flag leaf is visible.

#### **Durum and Wampum Variety Spring Wheat**

Make applications after the crop is tillering but before boot. Applications to durum and wampum varieties should be made in combination with 2,4-D.

Weed control may be reduced if rainfall or snowfall occurs soon after application. Six hours of dry weather are needed to allow ACCURATE EXTRA to be sufficiently absorbed by weed foliage.

If applied to irrigated wheat, barley or triticale the first post treatment irrigation should be delayed for at least 6 hours after treatment and should not exceed 1 in. of water.

Do not apply ACCURATE EXTRA to stressed crops, as this may cause crop injury. To reduce the potential of crop injury, tank mix ACCURATE EXTRA with 2,4-D (ester formulations perform best—see TANK MIXTURES) and apply after the crop is in the tillering stage of growth.

Rainfall immediately after treatment can wash ACCURATE EXTRA off of weed foliage, resulting in reduced weed control. Do not apply ACCURATE EXTRA when rainfall is threatening.

Add a non-ionic surfactant having at least 80% active ingredient strength at 0.125 to 0.25% v/v (1 pt to 1 qt per 100 gal of spray solution).

Antifoaming agents may be needed. Consult your Ag dealer or applicator for a listing of recommended surfactants

### WEEDS CONTROLLED

ACCURATE EXTRA effectively controls the following weeds when used according to the label directions:

Annual knawel	Corn spurry
Annual sowthistle	Cowcockle
Black mustard	Cress (mouse-ear)
Blue/purple mustard*	Curly dock
Broadleaf dock	Cutleaf eveningprimrose
Bur buttercup (testiculate)	False chamomile
Bushy wallflower/	Field chickweed
Treacle mustard	Field pennycress
Canada thistle*	(fanweed)
Carolina geranium	Filaree (redstem, Texas)
Clasping pepperweed	Flixweed*
Coast fiddleneck (tarweed)	Groundsel (common)
Common buckwheat	Henbit
Common chickweed	Kochia†
Common cocklebur	Knotweed (prostrate)*
Common mallow	Lambsquarters
Common purslane	(common, slimleaf)
Common radish	London rocket
Common ragweed	Marshelder
Common sunflower*	Mayweed chamomile
Conical catchfly	Miners lettuce
Corn chamomile	Narrowleaf lambsquarters
Corn gromwell*	Nightflowering catchfly

Pennsylvania smartweed  
 Pigweed (prostrate, redroot, smooth, tumble)  
 Pineapple weed  
 Plains coreopsis  
 Prickly lettuce†  
 Redmaids  
 Russian thistle†  
 Scentless chamomile/  
   mayweed  
 Shepherd's purse  
 Smallflower buttercup  
 Smallseed falseflax  
 Smartweed (green, lady's thumb, pale)  
 Snow speedwell  
 Stinky chickweed  
 Stinking mayweed/dogfennel  
 Swinecress

Tansymustard\*  
 Tarweed fiddleneck  
 Tumble/Jim Hill mustard  
 Volunteer lentils  
 Volunteer peas  
 Volunteer sunflower  
 Waterpod  
 Wild buckwheat\*  
 Wild chamomile  
 Wild garlic\*  
 Wild mustard  
 Wild radish\*

### **WEEDS PARTIALLY CONTROLLED\*\***

ACCURATE EXTRA partially controls the following weeds when used according to label directions:

Catchweed bedstraw	Sowthistle (annual)*
Mallow (little)	Tall waterhemp
Nightshade (cutleaf, hairy)	Vetch* (common, hairy)

\* See SPECIFIC WEED PROBLEMS for more information.

\*\* Partial control: A visual reduction of weed population as well as a significant loss of vigor. For better results, use the highest recommended rate of ACCURATE EXTRA and include a tank mix partner such as 2,4-D, MCPA, bromoxynil (such as "Buctril," "Bison," "Bronate, or "Bronate Advanced") or Dicamba (such as "Banvel"/"Clarity") refer to TANK MIXTURES section of this label.

† Naturally occurring resistant biotypes of kochia, prickly lettuce and Russian thistle are known to occur. See the Tank Mixtures and Specific Weed Problems sections of this label for additional details.

### **TANK MIXTURES**

ACCURATE EXTRA may be tank mixed with other suitable registered herbicides to control weeds listed as partially controlled, weeds resistant to ACCURATE EXTRA or weeds not listed under WEEDS CONTROLLED.

**NOTE: Read and follow all manufacturers' label recommendations for any companion herbicides, fungicides, and/or insecticides. If those recommendations conflict with this label, do not tank mix that product with ACCURATE EXTRA. Read and follow all label instructions on timing, precautions, and warnings for any companion products before using these tank mixtures. Follow the most restrictive labeling.**

ACCURATE EXTRA can also be mixed with registered fungicides, insecticides, or liquid fertilizer for use on wheat, barley, and triticale.

To provide best results, ACCURATE EXTRA should be tank mixed with another broadleaf herbicide. For best results, use 2,4-D or MCPA (preferably ester formulations). See below for use rates of 2,4-D or MCPA.

#### **With 2,4-D (amine or ester) or MCPA (amine or ester)**

ACCURATE EXTRA can be tank mixed with 2,4-D or MCPA (preferably ester formulations) herbicides for use on wheat, barley, triticale and fallow. For best results, add 2,4-D or MCPA herbicides to the tank at 1/8 to 3/8 lb active ingredient per acre.



In tank mixes containing 1/8 lb active ingredient 2,4-D or MCPA per acre, add 1 to 2 pt of non-ionic surfactant per 100 gal of spray solution; in tank mixes containing 1/4 to 3/8 lb active ingredient 2,4-D or MCPA per acre, add 1 pt of non-ionic surfactant per 100 gal of spray solution. Higher rates of 2,4-D or MCPA may be used, but do not exceed the highest rate allowed by those respective labels.

Always mix ACCURATE EXTRA in water prior to adding 2,4-D or MCPA and add the surfactant last. **READ NOTE above for general precautions with tank mix products.**

**With 2,4 D or MCPA (amine or ester) and Dicamba (such as "Banvel"/"Clarity")**

ACCURATE EXTRA may be applied in a 3-way tank mix with formations of Dicamba (such as "Banvel"/"Clarity") and 2,4-D or MCPA. Observe all applicable directions, restrictions and precautions on labels of all products used.

Make applications of ACCURATE EXTRA + 1.0-1.5 oz active Dicamba (such as "Banvel"/"Clarity") + 1/4 to 3/8 lb active ingredient of 2,4-D or MCPA (ester or amine) per acre. Use higher rates when weed infestation is heavy. Add 1-2 pt of nonionic surfactant to the 3-way mixture, where necessary, as deemed appropriate by local recommendations. Use of additional nonionic surfactant may not be needed with the higher phenoxy rates and ester phenoxy formulations. Consult the specific 2,4-D or MCPA and Dicamba labels, or local recommendations for more information.

Apply this 3-way combination to winter wheat after the crop is tillering and prior to jointing (first node). In Spring Wheat (including Durum), apply after the crop is tillering and before it exceeds the 5-leaf stage.

Do not apply this 3-way mixture at high rates more than once a year or more than twice per year at the low rates. **READ NOTE above for general precautions with tank mix products.**

**With Bromoxynil (such as "Buctril", "Bronate," "Bison" or "Bronate Advanced")**

ACCURATE EXTRA may be tank mixed with bromoxynil containing herbicides registered for use on wheat, barley, triticale, or fallow. For best results, add bromoxynil-containing herbicides to the tank at 3 to 6 oz active ingredient per acre (such as "Bronate" or "Buctril" at 3/4 - 1 1/2 pt per acre).

Tank mixes of ACCURATE EXTRA plus Bromoxynil may result in reduced control of Canada thistle.

**READ NOTE above for general precautions with tank mix products.**

**With "Starane", "Starane + Salvo", "Starane + Sword"**

For improved control of Kochia (2-4" tall) ACCURATE EXTRA may be tank mixed with 1/3 or 2/3 pints per acre of Starane, 2/3 to 1 1/3 pints per acre of "Starane + Salvo", 3/4 to 1 1/2 pints per acre of "Starane + Sword." Refer to the DuPont herbicide label, and the "Starane," "Starane + Salvo," "Starane + Sword" labels for information regarding use restrictions, labeled crops, rotational cropping recommendations, sprayer cleanup, use precautions and other information. The most restrictive provisions on either label will apply. Do not use the tank mix if any restriction on the labels conflict with recommendations on the Cheminova herbicide label.

2,4-D and MCPA herbicides (preferably ester formulations) may be tank mixed with "Starane," consult local recommendations and the TANK MIXTURES section of this label for additional information. **READ NOTE above for general precautions with tank mix products.**

**With "Maverick"**

ACCURATE EXTRA can be tanked mixed with "Maverick" herbicide for improved control of weeds in wheat. **READ NOTE above for general precautions with tank mix products.**

**With "Aim"**

ACCURATE EXTRA can be tank mixed with "Aim" herbicide for improved control of weeds in wheat, barley and triticale. **READ NOTE above for general precautions with tank mix products.**

**With "Stinger" or "Curtail" or "Curtail M" or "Widematch"**

ACCURATE EXTRA can be tank mixed with "Stinger" or "Curtail" or "Curtail M", and "Widematch" herbicide for improved control of weeds in wheat, barley and triticale. **READ NOTE above for general precautions with tank mix products.**

**With "Assert" Herbicide or "Avenge" Herbicide**

ACCURATE EXTRA can be tank mixed with "Avenge" or "Assert". When tank mixing ACCURATE EXTRA with "Assert", always include another broadleaf weed herbicide with a different mode of action (for example: 2,4-D ester, MCPA ester, or Bromoxynil (such as "Buctril", "Bronate", "Bison" or "Bronate Advanced"). Applications of ACCURATE EXTRA plus "Assert" may cause temporary crop discoloration, stunting, or injury when heavy rainfall occurs shortly after application. **READ NOTE above for general precautions with tank mix products.**

**With "Puma"**

ACCURATE EXTRA can be tank mixed with "Puma" herbicide for improved control of weeds in wheat, barley and triticale. **READ NOTE above for general precautions with tank mix products.**

**With "Discover NG"**

ACCURATE EXTRA can be tank mixed with "Discover NG" herbicide for improved control of weeds in spring wheat. **READ NOTE above for general precautions with tank mix products.**

**With "Everest"**

ACCURATE EXTRA can be tank mixed with "Everest" herbicide for improved control of weeds in spring wheat. **READ NOTE above for general precautions with tank mix products.**

**With Other Herbicides**

ACCURATE EXTRA may be tank mixed with other suitable registered cereal or fallow herbicides to control weeds listed as suppressed, weeds resistant to ACCURATE EXTRA, or weeds not listed under Weeds Controlled. **READ NOTE above for general precautions with tank mix products.**

Tank mixes of ACCURATE EXTRA plus metribuzin may result in reduced control of wild garlic.

Do not tank mix ACCURATE EXTRA with Hoelon 3EC because grass control may be reduced.

**With Fungicides**

ACCURATE EXTRA may be tank mixed or used sequentially with fungicides registered for use on cereal crops. **READ NOTE above for general precautions with tank mix products.**

**With Insecticides**

ACCURATE EXTRA may be tank mixed or used sequentially with insecticides registered for use on cereal crops. **READ NOTE above for general precautions with tank mix products.**

However, under certain conditions (drought stress, cold weather, or if the crop is in the 2 – 4 leaf stage), tank mixes or sequential applications of ACCURATE EXTRA with organophosphate insecticides (such as NUFOS® or "Lorsban") may produce temporary crop yellowing or, in severe cases, crop injury. The potential for crop injury is greatest when wide fluctuations in day/night temperatures occur just prior to or soon after application. Test these mixtures in a small area before treating large areas.

Do not apply ACCURATE EXTRA within 60 days of crop emergence where an organophosphate insecticide has been applied as an in-furrow treatment, because crop injury may result.

Do not use ACCURATE EXTRA plus malathion, because crop injury may result.

**With Liquid Nitrogen Solution Fertilizer**

Liquid nitrogen fertilizer solutions (e.g. 28-0-0, 32-0-0) may be used as a carrier in place of water. Run a tank mix compatibility test before mixing ACCURATE EXTRA in fertilizer solution.

ACCURATE EXTRA must first be slurried with water and then added to liquid nitrogen solutions. Ensure that the agitator is running while the ACCURATE EXTRA is added. Use of this mixture may result in temporary crop yellowing or stunting.

If using low rates of liquid nitrogen fertilizer in the spray solution (less than 50% of the spray solution volume), the addition of surfactant is necessary. Add surfactant at ½ pt – 1 qt per 100 gal of spray solution (0.06 – 0.25% v/v) based on local recommendations.

When using high rates of liquid nitrogen fertilizer in the spray solution, adding surfactant increases the risk of crop injury. If 2,4-D or MCPA is included with ACCURATE EXTRA and fertilizer mixture, ester formulations tend to be more compatible (See manufacturer's label). Additional surfactant may not be needed when using ACCURATE EXTRA in tank mix with 2,4-D ester or MCPA ester and liquid nitrogen fertilizer solutions. Consult your agricultural dealer, consultant, or field adviser for a specific recommendation before adding an adjuvant to these tank mixtures.

**NOTE:** In certain areas east of the Mississippi River unacceptable crop response may occur with use of straight or dilute nitrogen fertilizer carrier solutions where cold temperatures or widely fluctuating day/night temperatures exist. In these areas consult your agricultural dealer, consultant, or field advisor for a specific recommendation before using nitrogen fertilizer carrier solutions.

Do not use low rates of liquid fertilizer as a substitute for a surfactant.

Do not use with liquid fertilizer solutions with a pH less than 3.0.

**SPECIFIC WEED PROBLEMS**

**Note:** Thorough spray coverage of all weed species listed below is very important.

**Blue Mustard and Tansymustard:** For best results, use 0.3-0.4 ounces per acre and apply ACCURATE EXTRA in tank mixtures with 2,4-D or MCPA postemergence to mustards, but before bloom (refer to Tank Mixtures for additional details).

**Fixweed:** For best results, use 0.3-0.4 ounces per acre and apply ACCURATE EXTRA in tank mixtures with 2,4-D or MCPA postemergence, but before bloom (refer to TANK MIXTURES section of this label for additional details).

**Canada Thistle:** For best results, use 0.4 ounces per acre and apply ACCURATE EXTRA plus 2,4-D, or MCPA, or "Banvel"/"Banvel SGF" (refer to TANK MIXTURES for additional details) in the spring after the majority of thistles have emerged and are small (rosette stage to 6" elongating stems) and actively growing. The application will inhibit the ability of emerged thistles to compete with the crop.

**Sowthistle:** For best results, use 0.4 ounces per acre and apply either ACCURATE EXTRA plus surfactant or ACCURATE EXTRA plus 2,4-D or MCPA (refer to TANK MIXTURES section of this label for additional details) in the spring after the majority of sowthistles have emerged and are small (rosette stage to 6" elongating stems) and actively growing.

**Corn Gromwell:** For best results, use 0.3-0.4 ounces per acre and apply ACCURATE EXTRA when weeds are actively growing, are no larger than 2" tall, and when crop canopy will allow thorough coverage. Tank mixing 2,4-D, MCPA, or bromoxynil containing products (such as "Buctril," "Bronate," "Bison," or "Bronate Advanced") with ACCURATE EXTRA usually improves results (refer to TANK MIXTURES section of this label for additional details).

**Sunflower (common/volunteer):** For best results, use 0.4 ounces per acre and apply either ACCURATE EXTRA plus surfactant or ACCURATE EXTRA plus 2,4-D or MCPA (refer to TANK MIXTURES section of this label for additional details) after the majority of sunflowers have emerged, are 2" to 4" tall and are actively growing. Use spray volumes of at least 3 gal by air.

**Prostrate Knotweed:** For best results, use 0.4 ounces per acre and apply ACCURATE EXTRA when weeds are actively growing, are no larger than 2" tall, and when crop canopy will allow thorough coverage. Tank mixing 2,4-D or MCPA (refer to TANK MIXTURES section of this label for additional details) with ACCURATE EXTRA usually improves results.

**Wild Buckwheat:** For best results, use 0.3-0.4 ounces per acre and apply ACCURATE EXTRA plus 2,4-D, MCPA, or bromoxynil containing products (such as "Buctril," "Bronate," "Bison," or "Bronate Advanced") when plants have no more than 3 true leaves (not counting the cotyledons). If plants are not actively growing, delay treatment until environmental conditions favor active weed growth (refer to TANK MIXTURES section of this label for additional details).

**Vetch (common and hairy):** For best results, use 0.4 ounces per acre and apply ACCURATE EXTRA when vetch is less than 6" in length. For severe infestations of vetch, or when vetch is greater than 6" in length, use ACCURATE EXTRA in combination with 2,4-D, or MCPA (refer to TANK MIXTURES section of this label for additional details).

**Wild garlic:** For best results, use 0.2 to 0.4 ounces per acre and apply ACCURATE EXTRA when wild garlic plants are less than 12" tall with 2" to 4" of new growth. Plants hardened-off by cold weather and/or drought stress may be more difficult to control. Thorough spray coverage of all garlic plants is essential. Typical symptoms of dying garlic plants may not be noticeable for 2 to 5 weeks.

Control will be improved by using ACCURATE EXTRA in combination with 2,4-D or MCPA (refer to TANK MIXTURES section of this label for additional details).

**Wild radish:** For best results, use 0.4 ounces per acre applied in the fall to wild radish rosettes less than 6" in diameter and before plants harden-off. Alternatively, ACCURATE EXTRA can be applied in the spring for control of wild radish. Control will be improved by using ACCURATE EXTRA in combination with 2,4-D or MCPA (refer to TANK MIXTURES section of this label for additional details) when wild radish rosettes are less than 6" in diameter. Applications made later than 30 days after weed emergence, either in the fall or spring, will result in partial control.

**Kochia, Russian thistle, Prickly lettuce:** Naturally occurring resistant biotypes of these weeds are known to occur. For best results, use ACCURATE EXTRA in a tank mix with "Starane," "Starane + Salvo," "Starane + Sword," bromoxynil containing products (such as "Buctril," "Bronate," "Bison," or "Bronate Advanced") or dicamba (such as "Banvel"/"Clarity") and/or 2,4-D (refer to TANK MIXTURES section of this label for additional details). ACCURATE EXTRA should be applied in the spring when kochia, Russian thistle, and prickly lettuce are less than 2" tall or 2" across and are actively growing.

#### SPRAY ADJUVANTS

Include a spray adjuvant with applications of ACCURATE EXTRA. In addition, an ammonium nitrogen fertilizer may be used.

Consult your Ag dealer or applicator prior to using an adjuvant system. If another herbicide is tank mixed with ACCURATE EXTRA, select adjuvants authorized for use with both products. Products must contain only EPA-exempt ingredients (40CFR 1001).

#### Nonionic Surfactant (NIS)

- Apply 0.06 to 0.50% volume/volume (1/2 pt to 4 pt per 100 gal of spray solution).
- Surfactant products must contain at least 60% nonionic surfactant with a hydrophilic/lipophilic balance (HLB) greater than 12. – See the TANK MIXTURES – WHEAT, BARLEY, TRITICALE section of this label for additional information.

Petroleum Crop Oil Concentrate (COC) or Modified Seed Oil (MSO)

- Apply at 1% volume/volume (1 gal per 100 gal of spray solution) or 2% volume/volume under arid conditions.
- Oil adjuvants must contain at least 80% high quality, petroleum (Mineral) or modified vegetable seed oil with at least 15% surfactant emulsifiers.

Special Adjuvant Types

- Combination adjuvant products may be used at doses that provide the required amount of NIS, COC, MSO and/or ammonium nitrogen fertilizer. Consult product literature for use rates and restrictions.
- In addition to the adjuvants specified above, other adjuvant types may be used if they provide the same functionality.

Ammonium Nitrogen Fertilizer

- Use 2 qt/acre of a high-quality urea ammonium nitrate (UAN), such as 28%N or 32%N, or 2lb/acre of a spray-grade ammonium sulfate (AMS). Use 4 qt/acre UAN or 4 lb/acre AMS under arid conditions.

### GROUND APPLICATION

For optimum spray distribution and thorough coverage, use flat-fan or low-volume flood nozzles.

For flat-fan nozzles, use a spray volume of at least 5 gal per acre (GPA).

For flood nozzles on 30" spacings, use at least 10 GPA, flood nozzles no larger than TK10 (or the equivalent), and a pressure of at least 30 psi. For 40" nozzle spacings, use at least 13 GPA; for 60" spacings use at least 20 GPA. It is essential to overlap the nozzles 100% for all spacings.

"Raindrop RA" nozzles are not recommended for ACCURATE EXTRA applications, because weed control performance may be reduced.

Use screens that are 50-mesh or larger.

### AERIAL APPLICATION

Use nozzle types and arrangements that provide optimum spray distribution and maximum coverage at 1 to 5 GPA. Use at least 3 GPA in Idaho, Oregon, Washington, or Utah.

When applying ACCURATE EXTRA by air in areas near sensitive crops, use solid-stream nozzles oriented straight back. Adjust swath to avoid spray drift damage to downwind sensitive crops and/or use ground equipment to treat border edge of field. See the Spray Drift Management section of this label.

For aerial application in Washington, follow the directions in the Spray Drift Management Section of this label and the following Washington state restrictions:

- Applications of ACCURATE EXTRA must be made in equipment that meets the most restrictive Washington Agricultural Codes (WAC) for the prevention of herbicide drift for the respective county.
- Do not apply in equipment that does not meet these WAC standards.

### SEQUENTIAL APPLICATIONS

ACCURATE EXTRA can be applied either before or after applications of other products registered for use in wheat, barley, triticale, or fallow. Read and follow all label instructions on timing, precautions, and warnings for these herbicides before using these in sequence with ACCURATE EXTRA. If those recommendations conflict with this label, do not use that product in sequence with ACCURATE EXTRA.

ACCURATE should not be used as a sequential treatment with ACCURATE EXTRA.

If using "Harmony Extra" as a sequential treatment with ACCURATE EXTRA, do not exceed 0.7 ounces of "Harmony Extra" per acre per crop season.

If using NUANCE or "Express" herbicide as a sequential treatment with ACCURATE EXTRA, do not exceed 0.25 ounce of NUANCE or "Express" per acre per crop season.

### CROP ROTATION

Before using ACCURATE EXTRA, carefully consider your crop rotation plans and options. For rotational flexibility, do not treat all of your acres at the same time.

#### Minimum Rotational Intervals

Minimum rotational intervals\* are determined by the rate of breakdown of ACCURATE EXTRA applied. ACCURATE EXTRA breakdown in the soil is affected by soil pH, presence of soil microorganisms, soil temperature, and soil moisture. Low soil pH, high soil temperature, and high soil moisture increase ACCURATE EXTRA breakdown in soil, while high soil pH, low soil temperature, and low soil moisture slow ACCURATE EXTRA breakdown.

Of these 3 factors, only soil pH remains relatively constant. Soil temperature, and to a greater extent, soil moisture, can vary significantly from year to year and from area to area. For this reason, soil temperatures and soil moisture should be monitored regularly when considering crop rotations.

\* The minimum rotation interval represents the period of time from the last application to the anticipated date of the next planting. Minimum rotation intervals must be extended 1 crop season if drought conditions prevail after application and before the rotational crop is planted.

#### Soil pH Limitations

ACCURATE EXTRA should not be used on soils having a pH above 7.9, as extended soil residual activity could extend crop rotation intervals beyond normal. Under certain conditions, ACCURATE EXTRA could remain in the soil for 34 months or more, injuring wheat, barley, or triticale. In addition, other crops planted in high-pH soils can be extremely sensitive to low concentrations of ACCURATE EXTRA.

#### Checking Soil pH

Before using ACCURATE EXTRA, determine the soil pH of the areas of intended use. To obtain a representative pH value for the test area, take several 0" to 4" samples from different areas of the field and analyze them separately. Consult local extension publications for additional information on recommended soil sampling procedures.

#### All Areas – Following Use Of Accurate Extra At 0.21 To 0.4 Ounces Per Acre

Crop	Soil pH	Minimum Cumulative Precipitation (inches)	Minimum Rotation Interval (months)
Winter, spring wheat and triticale	7.9 or lower	No restrictions	1
Durum wheat, barley, spring/winter oat	7.9 or lower	No restrictions	10

#### Rotation Intervals For Crops In Non-Irrigated Land Following Use Of ACCURATE EXTRA At 0.21 To 0.4 Oz Per Acre On Wheat, Barley, Triticale Or Fallow

Location		Crop	Soil pH	Minimum Cumulative Precipitation (inches)	Minimum Rotation Interval (months)
State	County or Area				
Colorado	Statewide	Grain sorghum	7.9 or lower	No restrictions	4
		Flax, Safflower	7.9 or lower	No restrictions	22

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	Generally N. of I-70	Field corn	7.9 or lower	15	12
	Statewide	STS Soybean	7.9 or lower	No restrictions	4
		IR Corn	7.9 or lower	No restrictions	4
		Proso Millet	7.9 or lower	No restrictions	4
Idaho	Southern Idaho	Flax, Safflower	7.9 or lower	No restrictions	22
	Statewide	Peas Lentils Canola	6.8 or lower	18	10
		Peas	6.9 to 7.9	18	15
		Lentils	6.9 to 7.9	18	34
		Canola	6.9 to 7.9	18	22
		Condiment Mustard	7.3 or lower	10	10
		Chickpeas (Garbanzo beans)	7.3 or lower	10	10
		Condiment Mustard	7.4 or higher	28	34
		Chickpeas (Garbanzo beans)	7.4 or higher	28	34

Location		Crop	Soil pH	Minimum Cumulative Precipitation	Minimum Rotation Interval
State	County or Area			(inches)	(months)
Kansas	Statewide	STS Soybean	7.9 or lower	No restrictions	4
		IR Corn	7.9 or lower	No restrictions	4
		Proso millet	7.9 or lower	No restrictions	4
		Grain sorghum	7.9 or lower	No restrictions	4
		Flax, Safflower	7.9 or lower	No restrictions	22
	Central and Western Kansas (West of the Flint Hills)	Field corn	7.9 or lower	15	12
	Western Kansas W. of Hwy. 183	Soybeans	7.5 or lower 7.6-7.9	22 33	22 34
	Central Kansas; Generally E. of Hwy. 183 and W. of the Flint Hills	Soybeans	7.9 or lower	15	12
Montana	Statewide	Grain sorghum, Proso millet, Field corn	7.9 or lower	22	22
		Alfalfa	7.6-7.9	No restrictions	34
		(hay only)	7.5 or lower	No restrictions	22
		Flax, Safflower	7.9 or lower	No restrictions	22
Nebraska	Statewide	STS Soybean	7.9 or lower	No restrictions	4
		IR Corn	7.9 or lower	No restrictions	4
		Proso millet	7.9 or lower	No restrictions	4
		Grain sorghum	7.9 or lower	No restrictions	4

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	Generally W. of Hwy. 77 and E. of the Panhandle	Flax, Safflower	7.9 or lower	No restrictions	22
		Field corn	7.9 or lower	15	12
		Soybeans	7.5 or lower	22	22
			7.6-7.9	33	34
New Mexico	Statewide	Grain sorghum, Proso millet	7.9 or lower	No restrictions	10
		Flax, Safflower	7.9 or lower	No restrictions	22
	Eastern New Mexico	Cotton (dryland only)	7.9 or lower	30	22



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Location				Minimum Cumulative Precipitation	Minimum Rotation Interval
		Crop	Soil pH	(inches)	(months)
State	County or Area				
North Dakota	W. of Hwy. 1	Grain sorghum, Proso millet, Field corn, Dry beans, Flax, Safflower	7.9 or lower	22	22
	E. of Hwy. 1	Grain sorghum, Proso millet, Field corn, Dry beans, Flax, Safflower	7.9 or lower	34	34
Oklahoma	Statewide	STS Soybean	7.9 or lower	No restrictions	4
		IR Corn	7.9 or lower	No restrictions	4
		Proso millet	7.9 or lower	No restrictions	4
		Grain sorghum	7.9 or lower	No restrictions	4
		Flax, Safflower	7.9 or lower	No restrictions	22
		Field corn	7.9 or lower	15	12
	Panhandle	Cotton (dryland only)	7.9 or lower	30	22
	E. of the Panhandle	Cotton (dryland only)	7.9 or lower	25	14
Oregon	Statewide	Peas Lentils Canola	6.8 or lower	18	10
		Peas	6.9 to 7.9	18	15
		Lentils	6.9 to 7.9	18	34
		Canola	6.9 to 7.9	18	22
		Condiment Mustard	7.3 or lower	10	10
		Chickpeas (Garbanzo beans)	7.3 or lower	10	10
		Condiment Mustard	7.4 or higher	28	34
		Chickpeas (Garbanzo beans)	7.4 or higher	28	34
South Dakota	Statewide	Flax, Safflower	7.9 or lower	No restrictions	22
	S. of Hwy. 212 & E. of the Missouri River, & S. of Hwy. 34 & W. of the Missouri River	Grain sorghum, Proso millet	7.9 or lower	13	12
	Generally E. of Missouri River & S. of Hwy. 14, & W. of Missouri River	Field corn	7.9 or lower	15	12

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Location				Minimum Cumulative Precipitation	Minimum Rotation Interval
		Crop	Soil pH	(inches)	(months)
State	County or Area				
Texas	Statewide	STS Soybean	7.9 or lower	No restrictions	4
		IR Corn	7.9 or lower	No restrictions	4
		Proso millet	7.9 or lower	No restrictions	4
		Grain sorghum	7.9 or lower	No restrictions	4
		Flax, Safflower	7.9 or lower	No restrictions	22
	Panhandle	Field corn	7.9 or lower	15	12
		Cotton (dryland only)	7.9 or lower	30	22
	N. of Central Texas*	Field corn	7.9 or lower	15	12
		Cotton (dryland only)	7.9 or lower	25	14
	* The counties of N. Central Texas are: Archer, Baylor, Bell, Bosque, Bowie, Callahan, Camp, Cass, Clay, Collin, Cooke, Coryell, Dallas, Delta, Denton, Eastland, Ellis, Falls, Fannin, Foard, Franklin, Grayson, Hardeman, Haskell, Hill, Hood, Hopkins, Hunt, Jack, Johnson, Kaufman, Knox, Lamar, Limestone, McLennan, Milam, Montague, Morris, Nafarro, Palo Pinto, Parker, Rains, Red River, Robertson, Rockwall, Shackelford, Somervell, Stephens, Tarrant, Throckmorton, Titus, Upshur, Van Zandt, Wilbarger, Wichita, Williamson, Wise, Wood, Young.				
Utah	Statewide	Flax, Safflower	7.9 or lower	No restrictions	22
Washington	Statewide	Peas	6.8 or lower	18	10
		Lentils			
		Canola			
		Peas	6.9 to 7.9	18	15
		Lentils	6.9 to 7.9	18	34
		Canola	6.9 to 7.9	18	22
		Condiment Mustard	7.3 or lower	10	10
		Chickpeas (Garbanzo beans)	7.3 or lower	10	10
Wyoming	Statewide	Condiment Mustard	7.4 or higher	28	34
		Chickpeas (Garbanzo beans)	7.4 or higher	28	34
		Flax, Safflower	7.9 or lower	No restrictions	22
		Grain sorghum, Proso millet	7.9 or lower	No restrictions	10
Wyoming	Southern Wyoming (Goshen, Laramie, and Platte counties only)	Field corn	7.9 or lower	15	12
	Northern Wyoming	Grain sorghum, Proso millet, Field corn	7.9 or lower	22	22

Rotation Intervals for crops not covered above – The minimum rotation interval is 34 months with at least 28" of cumulative precipitation during the period:

- to any major field crop not listed (See the Rotation Intervals table)
- if the soil pH is not in the specified range
- if the use rate applied is not specified in the table
- or if the minimum cumulative precipitation has not occurred since application.

To rotate to a major field crop at an interval shorter than recommended, a field bioassay must be successfully completed to that crop. A field bioassay must be successfully completed before rotation to any minor crops (as determined by the USDA criteria). See section on Field Bioassay for further information.

**Rotation Intervals For Crops In Non-Irrigated Land Following Use Of ACCURATE EXTRA Up To 0.3 Ounces Per Acre On Wheat, Barley, Triticale Or Fallow In The States Of Colorado, Kansas, Nebraska, New Mexico, Oklahoma, South Dakota, Texas And Wyoming**

Crop	Soil pH	Minimum Cumulative Precipitation (inches)	Minimum Rotation Interval (months)
Sunflower	7.9 or lower	No restrictions	10

Rotation Intervals for crops not covered above (up to 0.3 ounces per acre) – The minimum rotation interval is 34 months with at least 28" of cumulative precipitation during the period:

- to any major field crop not listed (See the Rotation Intervals table)
- if the soil pH is not in the specified range
- if the use rate applied is not specified in the table
- or if the minimum cumulative precipitation has not occurred since application

To rotate to a major field crop at an interval shorter than recommended, a field bioassay must be successfully completed to that crop. A field bioassay must be successfully completed before rotation to any minor crops (as determined by the USDA criteria). See section on Field Bioassay for further information.

**Rotation Intervals For Crops In Non-Irrigated Land Following Use Of ACCURATE EXTRA At 0.31 To 0.4 Ounces Per Acre On Wheat, Barley, Triticale Or Fallow**

Location		Crop	Soil pH	Minimum Cumulative Precipitation (inches)	Minimum Rotation Interval (months)
State	Country or Area				
Colorado Idaho Kansas Montana Nebraska New Mexico Oklahoma South Dakota Texas Utah Wyoming	Statewide	Sunflower	7.9 or lower	No restrictions	22
North Dakota	W. of Hwy. 1	Sunflower	7.9 or lower	22	22
	E. of Hwy. 1	Sunflower	7.9 or lower	34	34

Rotation Intervals for crops not covered above (up to 0.31 to 0.4 ounces per acre) – The minimum rotation interval is 34 months with at least 28" of cumulative precipitation during the period:

- to any major field crop not listed (See the Rotation Intervals table)
- if the soil pH is not in the specified range
- if the use rate applied is not specified in the table
- or if the minimum cumulative precipitation has not occurred since application

To rotate to a major field crop at an interval shorter than recommended, a field bioassay must be successfully completed to that crop. A field bioassay must be successfully completed before rotation to any minor crops (as

determined by the USDA criteria). See section on Field Bioassay for further information.

**Rotation Intervals For Crops In Non-Irrigated Land Following Use Of ACCURATE EXTRA At 0.2 Ounces Per Acre On Wheat, Barley, Triticale Or Fallow**

Crop	Soil pH	Minimum Cumulative Precipitation (inches)	Minimum Rotation Interval (months)
Sorghum, Grain	7.9 or lower	No restrictions	4
Cotton	7.9 or lower	No restrictions	10
Safflower	7.9 or lower	No restrictions	10
Peas, Dry/Green	6.8 or lower	No restrictions	10
	6.9 to 7.9	No restrictions	22
Lentils	6.8 or lower	No restrictions	10
	6.9 to 7.9	No restrictions	22
Alfalfa	6.8 or lower	No restrictions	10
	6.9 to 7.9	No restrictions	22
Beans, Dry	6.8 or lower	No restrictions	10
	6.9 to 7.9	No restrictions	22
Sunflower	7.9 or lower	No restrictions	10

Rotation Intervals for crops not covered above (up to 0.2 ounces per acre) – The minimum rotation interval is 22 months with at least 18" of cumulative precipitation during the period:

- to any major field crop not listed (See the Rotation Intervals table)
- if the soil pH is not in the specified range
- if the use rate applied is not specified in the table
- or if the minimum cumulative precipitation has not occurred since application

To rotate to a major field crop at an interval shorter than recommended, a field bioassay must be successfully completed to that crop. A field bioassay must be successfully completed before rotation to any minor crops (as determined by the USDA criteria). See section on Field Bioassay for further information.

#### FIELD BIOASSAY

A field bioassay is necessary if crops other than wheat, barley, or those listed on this label are to be planted on land previously treated with ACCURATE EXTRA. To conduct a field bioassay, grow test strips of the crop or crops you plan to grow the following year in fields previously treated with ACCURATE EXTRA. Crop response to the bioassay will indicate whether or not to rotate to the crop(s) grown in the test strips.

If a field bioassay is planned, check with your local Agricultural dealer for information detailing the field bioassay procedure.

#### GRAZING

Allow at least 7 days between application and grazing of treated forage. In addition, allow at least 7 days between application and feeding of forage from treated areas to livestock. Allow at least 30 days between application and feeding of hay from treated areas to livestock. Harvested straw may be used for bedding and/or feed. Allow at least 45 days between application and harvesting of grain.

#### MIXING INSTRUCTIONS

1. Fill the tank  $\frac{1}{4}$  to  $\frac{1}{3}$  full of water.
2. While agitating, add the required amount of ACCURATE EXTRA.
3. Continue agitation until the ACCURATE EXTRA is fully dispersed, at least 5 minutes.
4. Once the ACCURATE EXTRA is fully dispersed, maintain agitation and continue filling tank with water. ACCURATE EXTRA should be thoroughly mixed with water before adding any other material.
5. As the tank is filling, add tank mix partners (if desired) then add the necessary volume of nonionic

surfactant. Always add surfactant last. Antifoaming agents may be used. Do not use with spray additives that alter the pH of the spray solution below pH 5.0 or above pH 9.0 as rapid product degradation can occur. Spray solutions of pH 6.0-8.0 allow for optimum stability of ACCURATE EXTRA.

6. If the mixture is not continuously agitated, settling will occur. If settling occurs, thoroughly re-agitate before using.
7. Apply ACCURATE EXTRA spray mixture within 24 hours of mixing to avoid product degradation.
8. If ACCURATE EXTRA and a tank mix partner are to be applied in multiple loads, pre-slurry the ACCURATE EXTRA in clean water prior to adding to the tank. This will prevent the tank mix partner from interfering with the dissolution of the ACCURATE EXTRA.

### SPRAY EQUIPMENT

For specific application equipment, refer to the manufacturer's recommendations for additional information on GPA, pressure, speed, nozzle types and arrangements, nozzle heights above the target canopy, etc.

Be sure to calibrate air or ground equipment properly before application. Select a spray volume and delivery system that will ensure thorough coverage and a uniform spray pattern with minimum drift. Use higher spray volumes to obtain better coverage when the crop canopy is dense. Avoid swath overlapping, and shut off spray booms while starting, turning, slowing, or stopping to avoid crop injury.

Do not make applications using equipment and/or spray volumes or under weather conditions that might cause spray to drift onto nontarget sites. For additional information on spray drift, refer to the Spray Drift Management section of the label.

Continuous agitation is required to keep ACCURATE EXTRA in suspension.

### SPRAYER CLEANUP

The spray equipment must be cleaned before ACCURATE EXTRA is sprayed. Follow the cleanup procedures specified on the labels of previously applied products. If no directions are provided, follow the six steps outlined in the **After Spraying ACCURATE EXTRA** section of this label.

### AT THE END OF THE DAY

It is recommended that during periods when multiple loads of ACCURATE EXTRA are applied, at the end of each day of spraying, the interior of the tank be rinsed with fresh water and then partially filled, and the boom and hoses flushed. This will prevent the buildup of dried pesticide deposits that can accumulate in the application equipment.

### After Spraying ACCURATE EXTRA and Before Spraying Crops Other Than Wheat, Barley, and Triticale

To avoid subsequent injury to desirable crops, thoroughly clean all mixing and spray equipment immediately following applications of ACCURATE EXTRA as follows:

1. Drain tank; thoroughly rinse spray tanks, boom, and hoses with clean water. Loosen and physically remove any visible deposits.
2. Fill the tank with clean water and 1 gal of household ammonia\* (contains 3% active ingredient) for every 100 gal of water. Flush the hoses, boom and nozzles with the cleaning solution. Then add more water to completely fill the tank. Circulate the cleaning solution through the tank and hoses for at least 15 min. Flush the hoses, boom, and nozzles again with the cleaning solution, and then drain the tank.
3. Remove the nozzles and screens and clean separately in a bucket containing cleaning agent and water.
4. Repeat step 2.
5. Rinse the tank, boom, and hoses with clean water.
6. If only ammonia is used as a cleaner, the rinsate solution may be applied back to the crop(s) recommended on this label. Do not exceed the maximum labeled use rate. If other cleaners are used, consult the cleaner label for rinsate disposal instructions. If no instructions are given, dispose of

the rinsate on site or at an approved waste disposal facility.

\* Equivalent amounts of an alternate-strength ammonia solution can be used in the cleanout procedure. Carefully read and follow the individual cleaner instructions. Consult your agricultural dealer or applicator for a listing of approved cleaners.

#### NOTES:

1. **Caution:** Do not use chlorine bleach with ammonia, as dangerous gases will form. Do not clean equipment in an enclosed area.
2. Steam-cleaning aerial spray tanks is recommended prior to performing the above cleanout procedure to facilitate the removal of any caked deposits.
3. When ACCURATE EXTRA is tank mixed with other pesticides, all required cleanout procedures should be examined and the most rigorous procedure should be followed.
4. In addition to this cleanout procedure, all precleanout guidelines on subsequently applied products should be followed as per the individual labels.
5. Where routine spraying practices include shared equipment frequently being switched between applications of ACCURATE EXTRA and applications of other pesticides to ACCURATE EXTRA-sensitive crops during the same spray season, it is recommended that a sprayer be dedicated to ACCURATE EXTRA to further reduce the chance of crop injury.

#### SPRAY DRIFT MANAGEMENT

The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions.

#### AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

##### IMPORTANCE OF DROPLET SIZE

The most effective way to reduce drift potential is to apply large droplets (>150 – 200 microns). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. **APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS!** See **Wind, Temperature and Humidity**, and **Temperature Inversions** sections of this label.

##### Controlling Droplet Size – General Techniques

- **Volume** – Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** – Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. **WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.**
- **Nozzle Type** – Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles.

##### Controlling Droplet Size – Aircraft

- **Number of Nozzles** – Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.
- **Nozzle Orientation** – Orienting nozzles so that the spray is emitted backwards, parallel to the airstream will produce larger droplets than other orientations.
- **Nozzle Type** – Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types.
- **Boom Length** – The boom length should not exceed  $\frac{1}{4}$  of the wing or rotor length – longer booms increase drift potential.
- **Application Height** – Application more than 10 ft. above the canopy increases the potential for spray drift.

**BOOM HEIGHT**

Setting the boom at the lowest labeled height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce.

**WIND**

Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. AVOID GUSTY OR WINDLESS CONDITIONS.

**NOTE:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

**TEMPERATURE AND HUMIDITY**

When making applications in hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation.

**TEMPERATURE INVERSIONS**

Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

**SHIELDED SPRAYERS**

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

**AIR ASSISTED (AIR BLAST) FIELD CROP SPRAYERS**

Air assisted field crop sprayers carry droplets to the target via a downward directed air stream. Some may reduce the potential for drift, but if a sprayer is unsuitable for the application and/or set up improperly, high drift potential can result. It is the responsibility of the applicator to determine that a sprayer is suitable for the intended application, is configured properly, and that drift is not occurring.

**RESISTANCE**

Biotypes of certain weeds listed on this label are resistant to ACCURATE EXTRA and other herbicides with the same mode of action\*, even at exaggerated application rates. Biotypes are naturally occurring individuals of a species that are identical in appearance but have slightly different genetic compositions; the mode of action of an herbicide is the chemical interaction that interrupts a biological process necessary for plant growth and development.

If weed control is unsatisfactory, it may be necessary to retreat problem areas using a product with a different mode of action, such as postemergence broadleaf and/or grass herbicides.

If resistant weed biotypes such as kochia, prickly lettuce, and Russian thistle are suspected or known to be present use a tank-mix partner with ACCURATE EXTRA to help control these biotypes, or use a planned herbicide rotation program where other residual broadleaf herbicides having different modes of action are used.

To better manage weed resistance when using ACCURATE EXTRA use a combination of tillage, and tank-mix partners or sequential herbicide applications that have a different mode of action than

ACCURATE EXTRA to control escaped weeds. Do not let weed escapes go to seed.

Consult your agricultural dealer, consultant, applicator, and/or appropriate state agricultural extension service representative for specific alternative herbicide recommendations available in your area.

It is advisable to keep accurate records of pesticides applied to individual fields to help obtain information on the spread and dispersal of resistant biotypes.

**\*Naturally occurring weed biotypes that are resistant to "Amber" herbicide, DuPont ALLY® herbicide, DuPont GLEAN® F C herbicide, DuPont EXPRESS® herbicide, DuPont HARMONY® EXTRA herbicide, or ACCURATE herbicide will also be resistant to ACCURATE EXTRA.**

### INTEGRATED PEST MANAGEMENT

Cheminova recommends the use of Integrated Pest Management (IPM) programs to control pests. This product may be used as part of an Integrated Pest Management (IPM) program which can include biological, cultural, and genetic practices aimed at preventing economic pest damage. Application of this product should be based on IPM principles and practices including field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

### PRECAUTIONS

- ACCURATE EXTRA is only registered on wheat, barley, triticale, and fallow. Do not use on any other crop.
- Do not apply this product through any type of irrigation equipment or to irrigated land where tailwater will be used to irrigate crops other than wheat, barley, and triticale.
- Varieties of wheat (including durum), barley and triticale may differ in their response to various herbicides. Cheminova recommends that you first consult your state experiment station, university, or extension agent as to sensitivity to any herbicide. If no information is available, limit the initial use of ACCURATE EXTRA to a small area.
- Under certain conditions such as heavy rainfall, prolonged cold weather, or wide fluctuations in day/night temperatures prior to or soon after ACCURATE EXTRA application, temporary discoloration and/or crop injury may occur. To reduce the potential of crop injury, tank mix ACCURATE EXTRA with 2,4-D (ester formulations perform best-see TANK MIXTURES section of this label) and apply after the crop is in the tillering stage of growth.
- ACCURATE EXTRA should not be applied to wheat, barley, or triticale that is stressed by severe weather conditions, drought, low fertility, water-saturated soil, disease, or insect damage, as crop injury may result. Severe winter stress, drought, disease, or insect damage following application also may result in crop injury.
- Do not apply to wheat, barley, or triticale undersown with legumes and grasses, because injury to the forages will result.
- For ground applications applied when dry, dusty field conditions exist, control of weeds in wheel track areas may be reduced. The addition of 2,4-D or MCPA may improve weed control under these conditions.
- Injury to or loss of desirable trees or vegetation may result from failure to observe the following:
  - Do not apply, drain or flush equipment on or near desirable trees or other plants or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots.
  - Do not use on lawns, walks, driveways, tennis courts, or similar areas. Prevent drift of spray to desirable plants.
- Injury or loss of adjacent sensitive crops and vegetation may result from failure to observe the following:
  - Take all necessary precautions to avoid all direct or indirect contact (such as spray drift) with non target plants or areas.



- Carefully observe all sprayer cleanup instructions both prior to and after using this product, as spray tank residue may damage crops other than wheat, barley or oat.

#### **WARRANTY DISCLAIMER**

Cheminova warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, CHEMINOVA MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

#### **INHERENT RISKS OF USE**

It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Cheminova or the Seller. All such risks shall be assumed by Buyer and User. Buyer and User agree to hold Cheminova and the Seller harmless for any claims related to such factors.

#### **LIMITATION OF REMEDIES**

To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to one of the following, at Cheminova's election:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

To the extent consistent with applicable law, Cheminova shall not be liable for consequential, incidental, or special damages or losses in any manner.

The terms of the Warranty Disclaimer above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Cheminova or the Seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

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